

CLAIMS

What is claimed is:

1. A radio controlled two wheel vehicle comprising:

a body having front and rear ends and a central portion between said ends, a front
5 wheel fork assembly connected to said front end of the body, and handlebars connected to the front
wheel fork assembly;

front and rear wheels operatively connected to and providing support for the
respective front and rear ends, said front wheel being rotatably mounted on said front wheel fork
assembly;

10 a steering mechanism connected to said front wheel fork and operative to steer the
toy vehicle in a desired direction;

a drive system connected to said body for selectively driving the rear wheel of the
toy vehicle;

at least one stabilizer extending from said body and adapted to prevent the vehicle
15 from tipping over at low speeds; and

circuitry for receiving radio commands from a remote transmitter and controlling
said steering mechanism and said drive system in response to received radio commands.

2. The radio controlled two wheel vehicle according to claim 1, further comprising a gyro
20 based stability system operatively independent from said drive system and said steering mechanism
for increasing the stability of the toy vehicle during operation.

3. The toy vehicle according to claim 2, wherein said stability system comprises:

a flywheel drive motor disposed in said seat tube;

a flywheel rotatably disposed in said crankshaft portion; and

a second transmission operatively connected to said flywheel drive motor and said flywheel, wherein said flywheel drive motor and said second transmission maintain said flywheel in
5 a constant rotating motion during operation independent of the operation of said drive system.

4. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer extends perpendicularly from said body

10 5. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer extends from said body at an angle between 1 and 90 degrees.

6. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer further comprises an end adapted to engage the ground when the vehicle tips, said stabilizer end
15 preventing re-erection of the vehicle caused by any part of said body touching the ground before said stabilizer end.

7. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer further comprises an end adapted to engage the ground when the vehicle tips and provides friction
20 to execute smooth, predictable controlled steering response from said steering system when the vehicle tips.

8. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer further comprises an end adapted to engage the ground and prevent the vehicle from tipping over at low speeds.

5 9. The radio controlled two wheel vehicle according to claim 1, wherein said stabilizer further comprises an end adapted to engage the ground to enable the vehicle to turn around the point of contact with the ground without tipping over.

10 10. The radio controlled two wheel vehicle according to claim 1, further comprising an action figure releasably connected to the two wheel vehicle.

11. The radio controlled two wheel vehicle according to claim 10, wherein said stabilizer further comprises an end adapted to engage the ground and prevent the combined vehicle and action figure from tipping over at low speeds.

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